## Multiservice 24x 10GE SFP+ Switch

## AS3400 Series

- **24 10GE/GE SFP+ ports**
- **4 100GE/40GE QSFP28 ports**
- **Supports 32K MAC**
- **Virtual switch system**
- **Easy management**
- **Carrier-class reliability**
- **Supports layer-2 and layer-3 routing protocols**
- **Equipment-level security**

ACT AS3424S Series Optical Fiber 10GE Switch is a high-performance switch which provides network operators and service providers with a cost-effective access layer for Fast Ethernet P2P services in Fiber to The Home/Business (FTTH & FTTB) networks.

AS3424S series includes 24 10GE SFP+ ports and 4 100GE/40GE QSFP28 ports. The platform provides high-density ports with flexible configuration options and a user-friendly interface to allow operators to quickly and easily expand their existing networks and services.

AS3424S offers compatibility with all existing Fast Ethernet or Gigabit Ethernet devices in the network. It provides high-performance switching and seamless cooperation with ACT routing and switching products. Combined with ACT's Video Overlay package, the AS3424S can provide the perfect end-to-end FTTX solution in offering advanced video, voice, and data services.

## Key Features

- 24 10GE/GE SFP+ ports, 4 100GE/40GE QSFP ports

- Supports 32K MAC

- Supports STP/RSTP/MSTP protocols, VRRP protocol, Ethernet ring protection, dual master-slave uplink protection, and LACP link aggregation

- Supports ISSU (In-Service Software Upgrade)

- Supports an ultra-high BFD dual-directional link detection mechanism

- Supports Ethernet OAM mechanism, 802.3ah, 802.1ag, and ITU-Y.1731

- Supports layer-2 and layer-3 routing protocols

- Supports IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path MTU discovery, DHCPv6, etc.

- Intelligent power supply management system

- Intelligent fan management system

- Complies with IEEE 802.3az

## Application Diagram
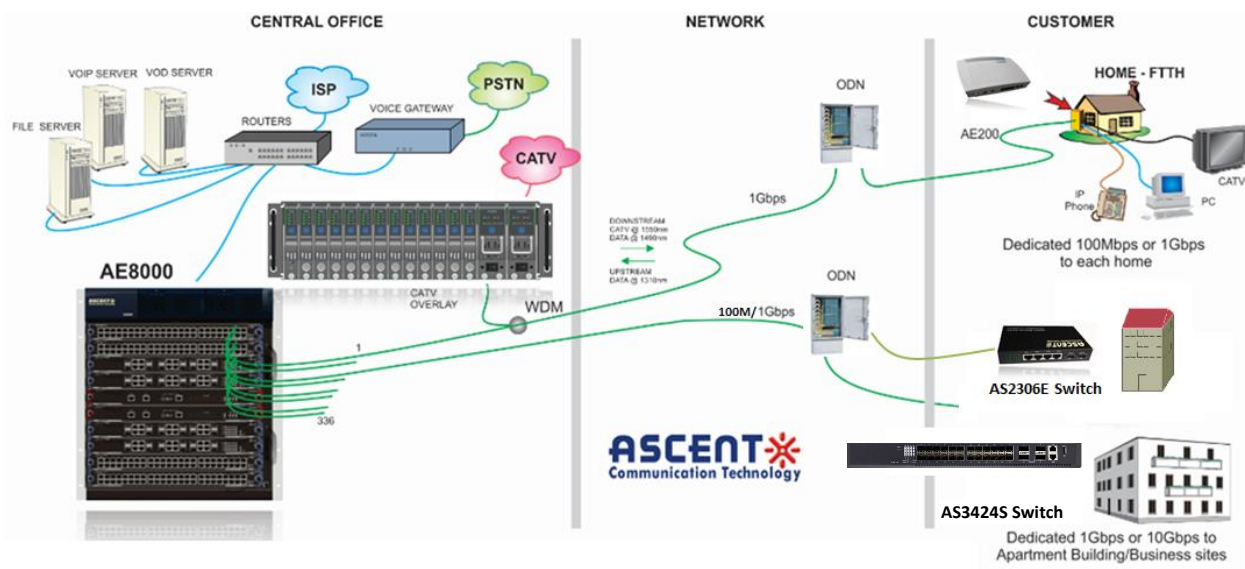
## Specifications

| Item | Description |
| --- | --- |
| Interface | 24 × 10GE/GE SFP+ ports, |
| | 4 × 100GE/40GE QSFP28 ports |
| Console | 1 × RJ45 port |
| | 1 × MGMT port |
| Backplane | 800 Gbps |
| Forwarding Rate | 600 Mpps |
| Chassis Dimensions | 440 mm × 350 mm × 44 mm |
| Chassis Weight | 7.1 kg |
| Package Dimensions | 576 mm × 448 mm × 94 mm |
| Package Weight | 8.3 kg |
| Power Consumption | No-load: 45 W |
| | Full-load: 70 W |
| Power Supply | AC: 100 V to 240 V, 50 Hz ± 10 % |
| | Dual-power AC |
| Total Output BTU | 238.91 (1000 BTU/hr = 293 W) |
| Fan Number | 4 |
| Noise @ 25 °C | 57 dBa |
| MTBF | >100,000 hr |
| Forwarding Mode | Store-forward |
| Flash | 32 MB |
| DRAM | 1024 MB |
| MAC | 32K |
| Jumbo Frame | 9K |
| Routing Table | IPv4: 16K |
| | IPv6: 12K |
| ARP Tables | IPv4: 10K |
| | IPv6: 10K |
| Total SVI | 1K |

| Features | |
| --- | --- |
| **VLAN** | 4K Active VLAN, QinQ & Selective QinQ, GVRP, Private VLAN |
| **Spanning Tree** | 802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP) |
| | BPDU guard, root guard and loopback guard |
| **Multicast** | PIM-SM, PIM-DM, IGMP v1/v2/v3 |
| | IGMP Snooping, IGMP Fast Leave, MVR, IGMP filter |
| **IPv4** | Static routing, RIP v1/v2, OSPF, BGP, PBR, ECMP |
| | BFD for OSPF, BGP |
| **IPv6** | ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet |
| | IPv6 neighbor discovery, Path MTU discovery |

|  |  |
|---|---|
|  | MLD V1/V2, MLD snooping |
|  | IPv6 Static Routing, RIPng, OSPFv3, BGP4+ |
|  | Manual tunnel, ISATAP tunnel, 6 to 4 tunnels |
| **MPLS** | LDP protocol, Multi-VRF |
|  | MPLS L2 VPN |
| **QoS** | CAR, HQoS, MAC/IP/TCP/UDP/VLAN/ COS/DSCP/TOS based QoS, 802.1P/ DSCP |
|  | priority re-labeling, SP, WRR, and "SP+WRR", Tail-Drop, WRED, flow monitoring and traffic shaping |
| **Management** | Console, Telnet, SSH v1/2, HTTP, HTTPS |
|  | SNMP v1/v2/v3, RMON |
|  | TFTP, FTP, SFTP |
|  | NTP, SPAN, RSPAN |
| **Security** | Port isolation, Port security, and "IP+MAC+port" binding, MAC sticky |
|  | DHCP Snooping and option 82, DAI & IP source guard, PPPoE+ |
|  | IEEE 802.1x, RADIUS, and TACACS+ |
|  | L2/L3/L4 ACL flow identification and filtration |
|  | Anti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc. |
|  | Broadcast/multicast/unknown unicast storm-control |
|  | MD5, SHA-256, RSA-1024, AES256, etc. |
| **Reliability** | Static/LACP link aggregation, |
|  | Interface backup |
|  | BVSS virtual-stacking |
|  | EAPS and ERPS |
|  | URPF, LLDPISSU |
|  | VRRP |
|  | 1+1 power backup |
| **Certifications** | CE, FCC, RoHS |

## Ordering Information

| Product Name | Product Description |
|---|---|
| AS3424S-4Q-AC2 | AS3400 Series Ethernet routing switch with 24 10GE SFP+ ports, 4 100GE QSFP28 ports, Dual AC PS |

## Contact Information



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